subequal. 40 seales in a longitudinal series, 5 between dorsal fin and lateral line, 3 between lateral line and root of ventral fin. Dorsal III $s$; origin nearly equidistant from tip of snont and base of caulal; longest ray nearly as long as the head ; free edre of the fin slightly concave. Anal 11 f 5. Caudal deeply forked. Pectoral as long as the hearl, uot reaching the ventrals, which originate below the middte of the dorsal and extend to the origin of anal. No well-defined spots or markingz.

A singlo specimen, 53 mm . in total longth, from the lake at Yuman Fu.

## Silurus Grahami.

Depth of body 6 in the length, lenerth of head 5. Breadth of head $1 \frac{2}{5}$ in its length, diameter of eye $S$, interorbital width $3 \frac{1}{3}$, length of snout $3 \frac{1}{3}$. Lower juw projecting ; vomerine teeth in separate patehes; 4 barbels, the maxillary ones reaching the ents of the peetorals, the mental o res $\frac{0}{5}$ as lons. Dorsal 4, its distance from tip of smont slightly more than $\frac{1}{2}$ its distance from the caudal. Anal 73, continnons with the caudal, which is subtrucate. Pectoral with I 13 rays; spine with the outer edre weakly dentionlatel and the inner e lge entire, its length ${ }_{5}^{3}$ that of the fin, which is $\frac{3}{5}$ as long as the head and does not reach the ventral. Ventral.s 12 -rayel, extending to the third or fourth ray of amal. Greyish brown.

A simgle specimen, 26.3 mm . in total lencth, from the Chien Kiung Lake, 30 miles S.E. of Yannan Eu.

This specics is very close to S. mento, Ren., from Yimman Fu Lake, which has shorter barbels, the imer edge of the pectoral spine serrated, and the ventrals 10 -rayed.
> VI.-Hiagnoses of new Central-Anerican Freshouter Fishes of the Families Cyprinodontidæ and Mugilidæ. By C. 'Iate Regan, B.a.

## 1. Rivulus fubellicauda.

D. 9. A. 12. Sic. 42. Diameter of eye 4 in the length of head. End of anal below middle of dorsal. Brownish, edges of scales darker ; vertical fins with some small darker spouts; a candal ocellus.

Ilab. Costa Rica, Juan Veñ:s (Underwoorl).
'Iotal length 70 mm .

## 2. Rivolus Corlmanni.

D. S. A. 11. Sc. 35. Diameter of eye 3) in the length of head. Emb of amal blow midtle of dorsal. Olivacenes, a darker spot on each scale ; operenhum blackish; vertical fins ducky, the candal with a narrow pale edge and below with a blackish intranargimal stripe; caudal ocellus sometimes preamt.

Ileb. Guatemala (Goclman).
'Total length -10 man.

## 3. Pucilia saltatoris.

Precilin thermalis (non Steinl.), Günth. Cat. Fish. vi. p. 311 (1866).
1). 10-11. A. 8-9. S'c. 27-30. Closely allicd to P. spliemops, C. \&EV., but with the body unt so deep, the internthital apace broaler, and the free etge of the dorsal fin straight insteal of convex. Olivaceous; males with more or less distinct cross-bats; dorsal with 2 series of vertically expandel blackish spots, somotimes absent in females; cantal, in the males, with oblong blackish spots.

Huk. San Salvator, in warm springs (Dow).
Thotal length 5.5 mm .

## 4. Liphophorus strigatus.

Xiphophorus Itelleri (non IIeck.), Meek, Zoul. Pub. Columbian Mus. r. 1501, p. 15:.
D. 12-14. A. 9-10. Sc. 2S-30. A blackish lateral stripe from cye to base of caudal; no additional stripe in the males.

Hub, Southern Mexico, Vera Cruz and Oaxaca.
The trme N. Helleri is the species named N. jalapee by Meck, males of which have two lateral stripes.

## 5. Xiphophorus trevis.

D. 13-15. A. $9-10$. Sc. 27 . Depth of body $2 \frac{1}{2}$ to $2 \frac{2}{3}$ in the length. 3 or 4 indistinct dark longitudinal stripes at the edges of the scries of scales on the sides of the bo ly.

Ihab. British Honduras, Stam Creck (Robertson).
'Tutal length 75 mm .

## 6. Agonostomus macracanthus.

D. IV, I 8. A. II 10. Sc. 41-43. Upper lip very thick, as in A. nosutus. Maxillary extending to below mildle of eye. Dorsal spines strong, the first $\frac{1}{2}-\frac{3}{3}$ the length of head or

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-3 the distance between the origins of the dorsal fins and as long as the longest rays of the second dorsal. Pectoral $\frac{2}{3}$ the length of head, extending to or a little beyond the vertical from the origin of spinous dorsal.

Hah. Guatemala, Rio Guacalate (Sulvin).
T'otal length 210 mm .

## 7. Agonostomus Sulvini.

D. IV, I \&. A. 11 10. Sc. $38-10$. Closely allied to A. nusutus, but upper lip not so thick, eye smatler, lower jaw a little longer, pectoral fin shorter. Maxillary extending to below anterior $\frac{1}{4}$ or $\frac{1}{3}$ of eye. Dorsal spines moderate, the first $\sum_{5}$ (adult) or $\frac{1}{2}$ (yoming) the length of head or of the distance between the origius of the dorsals. Pectoral $\frac{2}{3}$ the length of head or less, not extending to below the spinous dorsal.

Hab. Guatemala, Rio Nacasil (Salvin).
'Total length 270 mm .
VII.-A Contrilution towards a Kinowledlye of the Entozou of British Marine Fishes.-Part I. By William Nicoll, M.A., B.Sc., Gatty Marine Laboratory, St. Andrews.
[Plates I.-IV:]

The following account of an as tet little-known province of British marine zoology ean hardly be regarded as more than a more preliminary. The original intention was to have treated the subject in a systematic manner, dealing with the Entozoa of each of the natural groups of fishes-Gadidx, Pleuroncetidie, Sce.-separately; but as this was found impossible for the time being, the most satisfactory remaining course scemed to be to study the casily accessible fishes as they came to hand. It will be seen that these fall under two classes : (1) the commoner littoral fishes, gunnel, stickleback, \&ce.; (2) the commoner food-fishes, haddock, dab, \&ce. A large uumber of each species, except in a fow instances, having been examined, the results obtained may be regarded as fairly accurate and the parasites from each host as comparatively typical. Special attention has been devoted to the Trematode forms ; cestodes occurred but rarely, except in the form of scolices. Nematodes and Acanthocephala were frequent, but, for the most part, assignable to common species. Several forms remain unuamed, mostly young Ascarids, which are difficult to diagnose.

